

## Sea Urchin Zone Council Meeting April 4, 2013 in Ellsworth

**DMR staff:** Trisha De Graaf, Robert Russell, Patrick Keliher, Dale Sprowl and Maggie Hunter via phone.

**SUZC members:** Bill Sutter, Joe Leask, Steve Eddy, Brian Preney, Ian Emery, Ed Fagonde, Chris Buyers, Teresa Johnson, William Smith, Dean Norris, Tracey Sawtelle, Atchan Tamaki, Clint Richardson and Chuon Muth.

**SUZC member not present:** Larry Harris.

**Public:** James Campbell, Brian Chadwick, Vicky Chadwick, Tim Peterson, Tracey Sawtelle, Ricky Wright, Ronald Kennedy, Mike Potts, and Sheldon Dorr, Aaron Gilpatrick, Scott T. Young, Dan Rodgers, Machun..

**Meeting commenced at 5:07pm**

**Welcome**

### **Approval of Minutes (03/26/13)**

T. De Graaf – there was an error in the title of the printed DRAFT minutes that I will correct.

***Unanimously approved***

### **DMR Updates – 2013-14 Season Recommendations (T. De Graaf, see slides in Appendix A)**

BBH Science staff recommend a 23% reduction which would only stabilize the Zone 2 resource, not allow for rebuilding. The reduction could be achieved by tote limits, a reduction of days, changing the size measures or requiring an escape panel along the entire length of the drag. The escape panel, however, would disproportionately affect Cobscook Bay as urchins in that area are generally smaller. Therefore, it is not possible to assign and conservation equivalency to the entire Zone for the 23% reduction equation. Increasing the minimum size by 1/16 would achieve a 5% reduction, while decreasing the minimum size would achieve a 2% reduction. You could also use a combination of tote limits and days with the size measures to achieve the 23% :

- OPTION A: 37 days + 6 totes (-3%days + 27%trays)
- OPTION B: 44 days + 4 totes (-22%days + 47%trays)
- OPTION C: 43 days + 5 totes + increase in minimum size of 1/16 (-19%days + 36%trays + 5%min)
- OPTION D: 40 day + 6 totes + increase in minimum size of 1/16 + decrease in maximum size of 1/16 (-11%days + 27%trays + 5%min +3% max)

DMR recognizes the impact of these reductions coupled with the reductions that were implemented last season. Therefore, DMR would like to discuss the possibility of a three year freeze on future management actions as a means to provide stability to the industry during this time.

I. Emery – Feels the change to the size measure would be will be the savior of industry.

T. Sawtelle – Urchins don't get big up in Cobscook.

J. Leask – you have to think of the guy in Topsham who makes these measures. When we changed it last time he got stuck with the other older ones.

C. Buyers – Is he the only one who makes the measures? I am sure there are others.

I. Emery – It would preserve the fishery!

B. Sutter – I have a few housekeeping items to take care of. I wanted to update you on three bills were heard by the Marine Resource Committee (MRC) yesterday. An Act to Improve the Quality of Data as the Departments request, a Bill to Enation guidance on the development of for Fishery Management Plans (FMP) at the Departments request and an An Act to Enable Small-Scale Cooperative Management of the Sea Urchin Resource which is Mick Devin's. I spent whole day there, Devin's bill was requested to be carried over, a work session was immediately opened up and then it was moved for a layover, and the vote was unanimous. Other will have workshops coming up. Depending on results of at least two other bills, they may affect what our FMP may look like. Everything we have done on our FMP fits into what they are looking for. DMR is looking for some guidance; we will see what it turns out to be and where we will go.

The other thing I wanted to do is that the chair of the SUZC appoints the SUZC Research Subcommittee members and a chair. Larry Harris gets appointed as chair of committee and anybody who wants to serve can volunteer (I. Emery, S. Eddy, J. Leask, T. Johnson, T. Sawtelle, D. Norris, R. Russell, M. Hunter). Our major task is going to be continuing the work on the FMP. Hard to draft something with a very large group, strawman has to be presented to SUZC, which tears apart and puts back together.

Back to the legislature, what is Pat looking for on the FMP bills? LC811? Mick put it in – provide guidance on development of FMP.

P. Keliher – The Department wants to go through a process by which we develop the FMPs species by species. Not looking for an ASMFC or NEFMC huge document. Want the document to provide direction to industry, done with a body like this council. It will be a bottom up approach that will go through a public hearing process, and will be finalized by the DMR Advisory Council. It will adhere to the full Administrative Procedure Process to in accordance with the law. Only sticking point is the MRC would like. Which is mostly related to the rockweed management plan, is have these plans come back for review by MRC as they want to see progress on how it is developed, but this may only be for the seaweed plan. The reason we are going through legislation, is to get buy in by the Legislature and these FMPs will eventually be guidance document to move forward with possible rule or law changes in the future.

B. Sutter – What was Bruce McDonald's bill?

P. Keliher– That is a landings program bill. It would allow us to collect landings data in a timely fashion, and is particularly needed for shrimp fishery and to help with elver issues. It will improve the quality of data and timeliness of its collection.

I. Emery – On the Department plan to focus on the FMP, there is a lot of talk in press, especially with Steneck's recent publication, talking about ecosystem based management. What is relationship with that?

P. Keliher – The Department is so underfunded, it would be a dream to produce an FMP with an ecosystem based approach. We would need a staff modeler; currently we are using Yong Chen. Long way to that, unless we get additional \$750,000 added to our Department's budget.

B. Sutter - I spoke in favor of the bill, I remember the list included in the plan, one of issues was the biology of the spe4ceise. I hope you will make the distinction between the vast amounts of science documents and simply have a line that refers to this literature that states this information and where it is available to keep the documents simple.

P. Keliher – I agree, we would reference the lobster ASMFC stock status reports, for example, while developing a smaller more nimble document. Not a 100 page document, but rather something that is 20 pages tops. Calling them FMPs, but really we are looking for a guidance document that would be useful here, for the regulatory process and other decision making situations.

B. Sutter – The other issue that came up is that the document does not become something that is actionable, requiring the industry to meet certain objectives and if not, something drastic happens. There will be a lot of lawyers around if so.

P. Keliher – We believe the plans will be used to base regulations off of, but lit is a ong ways to go before the plan itself will be utilized like an ASMFC plan.

J. Campbell – Will there be any input from the Federal government?

P. Keliher – That is the last thing we want.

J. Campbell – do they have guidelines?

P. Keliher – One of the staff member we have now in Hallowell used to work for ASMFC reviewed their FMPs, so he is an expert in that field.

T. De Graaf – That is Chris Vonderweidt, and he came to last Novembers SUZC meeting to see how the council was developing its FMP.

Joe – Trish has also provided input from other states, examples.

J. Campbell– Washington state is way ahead of us.

B. Sutter – One of things we are dealing with is Mick Devin's Concept Bill. Right now the law says we have two Zones, maybe we need more? There are things that the Commissioner can and cannot do; those are things we need to identify in the FMP so we can address those. That bill is the vehicle to make it happen.

J. Campbell – There are two zones - two industries. So are there two separate plans?

B. Sutter – It is one plan that will enable things to happen things differently in each zone. Depends on how plan comes out. Whether we have any market for the damn things.

#### **Back to DMR 2013-14 Recommendations:**

T. Sawtelle – Why not just drop measure in Cobscook? If there is a lower maximum size, it won't hurt us.

Audience – more seed.

J. Campbell - Is there any recommendations for statewide reductions? We are all separated by Zone 1 and 2. I don't believe that statewide has been looked at in a long time and where DMR would be on setting season this way.

R. Russell – We have all the survey data statewide.

J. Campbell – Trish only had Zone 2 recommendations.

I. Emery – It is a 23% reduction for Zone 2, but does that include what would be needed in Zone 1?

T. De Graaf – For Zone 1, we committed last year to giving them 15 days for two years and then looking at the Harvester Logbook data to evaluate whether or not that impacted the resource to determine if we would keep the 15 days going forward. So, for this year, Zone 1 will have 15 days again.

J. Campbell – If we look at this as a single industry and combine them, what would DMR look at as a statewide industry? Our biomass is coming back and it should help Zone 2 out.

B. Sutter – What we need to do is pick days in Zone 2 and what they are going to do to come up with those number of days. Once we decide that, we as a whole group to have urchins available 3 days a week for a long period of time.

J. Campbell – What about my interests? 150 of us left and you have this big giant bureaucracy going. Urchin industry will be over for zone 2!

I. Emery - What you are saying is that the 23% reduction could be born across the whole state?

J. Campbell – Exactly what is looked at statewide?

R. Russell—We survey the biomass state wide. 9 survey zones. Biomass in western part of state is not enough, eastern Maine is much higher than western part of state.

J. Campbell – Then put the numbers together and come back with a full fishery recommendation. 23% in Zone 2, that is a lot and will put us out of business. I have traveled 2 hours from home to come here and there is nothing about zone 1.

J. Leask – All I am saying is what we are going to do is we got to get through our season and your season. All the other stuff we have to do, one zone, well get that done in weeks and months to come.

J. Campbell – Your from Zone 2 and made a lot of money this year! I had 9 days!

B. Sutter – What exists is now and what we have to do now, tonight we have to deal with setting the season.

J. Campbell – You and this council do nothing but make paperwork!

C. Richardson – Is we raised 1/8 of an inch what is the long term benefits?

T – Those urchins left on bottom would have additional years to spawn, and when harvested, less urchins would make up what is need per tote, so it would mean more urchins would be left on bottom.

D. Norris – At the last meeting we saw chart of your survey results. 3 or 4 years ago, there was the same biomass but no talk of 1 million target quota then, but no talk of that then.

R. Russell –The survey is just one of the tools that goes into model.

D. Norris – The model is just one tool!

R. Russell – It is one item we look at. We have the model, landings, port sampling, the survey that we all look at.

D. Norris – No recent data was put. Most recent survey was not done.

R. Russell – It was on the chart. Nothing [biomass] has gone up at all.

J. Campbell – You go to same sites and new sites?

R. Russell – We have more new sites and fixed sites.

J. Campbell – Some of the fixed sites I went to them, when you go to them this year there will be less urchins this year than last year.

R. Russell – That is the reason we have different types of sites.

D. Norris – CPUE went up this year.

R. Russell – Not statewide, the logbooks shows it tanked.

J. Campbell – These sites are being harvested, that would create the impression of declining number based on simple fact that guys know sites and work them.

R. Russell – The permanent sites have been surveyed over years. The function of those sites is too look at how it changes over time. Used to be really good. Years ago we asked industry to pick those sites as indicators. Other sites are randomly selected from Joe Kelly information on bottom habitat, etc... some are phenomenal, other would be nothing. When you combine them all together it provides you with an idea of biomass over all.

J. Leask – I support you, but I also support it [survey]being privatized.

D. Norris – Almost all science is done at 99 to 100 percent confidence levels.

R. Russell – No, there is a large biological scale that has a high threshold. There error structure would be so huge.

D. Norris – Narrow error bars to show decline you would have to drop error levels to 40 percent. You can currently hide the increase in biomass within these error bars.

R. Russell – You can either connect the top end of the error bar or lower end, you can choose. You have an 80% chance on being in the middle. Need to look at trends over time, which are declining.

D. Norris – You chose that confidence level. That leaves room for increase of decline. Drop your bars closer together.

R. Russell – To do that we would need 400 sites per zone – not possible.

D. Norris – Double your points in each area to have tighter estimates.

R. Russell – That survey has shown the same pattern over time, down.

D. Norris – I can show the line going up, statistics are there.

R. Russell – We can sit and talk about it some other time.

C. Muth – if your survey is wrong, you are going to put a lot of people out of business.

R. Russell – They survey provides a general amount of biomass. That tool, along with landings data, port sampling data and harvester log book and the model, all goes into the recommendation. You can't say that things are doing better.

D. Norris- But CPUE is going up!

T. Sawtelle – That landings data is totally wrong! None of those numbers are right.

B. Sutter– One of the things that the Department is looking for is harvester logbook reporting. It is awful hard to argue about the science when you are not willing to give data that is needed.

J. Campbell– On permanent sites, do you factor in fact that urchins move?

R. Russell – The random sites are the bulk of survey. Out of 150 total sites, only 45 are permanent sites. What we look at is the algal community, presence of urchins and size structure of them.

J. Campbell – Do you factor in movement?

B. Sutter – We can discuss the survey all night. We are not going to change the criteria by which we are going to set the seasons tonight. For here and now, we are not going to change it.

C. Muth – If we had 27 days and unlimited totes, how many weeks?

J. Leask – that is 9 weeks.

Chun - I can live with that. 27 days and shorter time. 3 days a week. No one will go out for 4 totes. 27 days unlimited.

J. Campbell– Once they take days they won't come back.

C. Muth – We will be gone anyway. Does anyone in this room do any research market wise? That is what I am here for. Right now we have a hard time selling 60 boxes week – Japan does want it. The buy from Russians because cheaper.

A. Tamaki – I have to have to have 45 days and 4 totes.

C. Muth – I am against that.

A. Tamaki – Since 1996 have always been taking from the resource. As a processor we need stable supplies. With 2 days a week, one big storm can wipe us out. I calculated how many totes each fisherman got this past season; I came up to 5.2 toes. May not be accurate, because one fisherman may be selling to many buyers. But it shows that we are already at 5 totes.

D. Norris – My totes are 115 lbs.

J. Leask – How many divers do you buy form a day Atchan?

A. Tamaki – A lot, depends on day. 25-40 divers.

J. Campbell – 75% of them?

A. Tamaki – I know it is not fair to you Joe, but some people are taking 2 totes per day.

C. Muth – I am against him, I do overseas market, he does domestic. Overseas we got killed this year because of the price. I am in this business to support industry, this is this season.

J. Leask – both you and Atchan are saying you need 3 days a week, right?

C. Muth – you want 4 totes?

J. Leask– I rather not, I travel a lot.

C. Muth – Say a guy in Portland fishes Zone 2, fish then go do something else on other days.

Audience – If took out Zone 1 divers that have a Zone 2 license, there is your effort reduction right there!

Audience – Fish in own backyard.

C. Buyers – I think you got to take some off min and max size but you have to be at the 800 lbs limit per day, no matter how you get there. Atchan needs his 3 days a week.

D. Norris – The commissioner means 780 lbs, stackable totes interlocking.

C. Buyers – You can't go any lower than 8 totes.

A. Tamaki – Why don't you give each end of sizes.

Machun – I see you guys already decided on a 23% reduction. How you do it is how you open it up. Chun wants a shorter season; Atchan has other jobs, so he has other things to do. I see both points. I see 23% reduction and I have to think about my future [am I going to continue in this business].

Chun – How many people want to go for 4 totes at 90lbs?

J. Campbell – I don't want to.

B. Sutter – You are Zone 1.

C. Muth – Why don't we get a shorter season and then go do something else?

I. Emery – I see what you are saying. I think there are a number of possibilities we could look at. A lot of guys in late season Zone 2, only really get 25-30 days because of the weather. Spoke to Tracey about this in the hall. I know you are going to get your days in early season due to the weather. Combination of tote limits and days in early season, and different for late season. How does that play with the biomass is another thing....[not possible]

J. Leask – I have had some bad weather in early season.

C. Muth - There are only 4 boats fishing now in Canada and they have flooded the market. Reason why is because we have ruined the market over the year and now those 4 boats have a flooded market. We used to sell \$3 now selling \$5.

I. Emery – You have a different business model than Atchan. We have to come up with a hybrid plan. Tracey has issue with min size in Cobscook.

C. Muth – Why not shorten the season? September high price and December high price. One season and one zone.

J, Campbell – That would make you happy, wouldn't it?

C. Muth – Joe can go fishing in Rockland.

Chris – The state told us we need to reduce 23%

C. Muth – I will be gone.

Chris – When you are gone, will go back to \$1.50/lb.

B. Preney – I have been a fan of tote limits for a long time. If we had done it in 1986 it would have taken care of it. I am glad the commissioner is here tonight, it shows that he cares. We have to give him some reason why we don't need these equivalencies. Tangibles. If I am a diver in Whiting & Denny's Bay, I am not arm sweeping urchins, picking out highest quality. Going to be leaving a lot of urchins on bottom, quality product.

J. Leask – Your zone 1 right? You support zone 1 tote limit?

B. Preney – I think that is where we need to go. We need to give the commissioner a reason. Already tied the tote limit this past season and we know it works. There is a factor here. 40 days and 8 trays. Diver want a higher % roe, higher quality product will have better price.

J. Leask – I am not supporting it and am against splitting the zones. Tonight we are looking at both zones. Zone 2 is on the table right now. I am part of Zone 1, I see Zone 1 as I tend for Zone 1. I fish Zone 2. We have to manage whole industry. When Robert goes into zone 1, I am concerned about the numbers there. You were talking about tote limits. Zone 2 has the ability to rebound and work with Steve Eddy to work on this and improve things. Pat, you were going to leave Zone 1 alone for 2 years. I thought Zone 2 would be left alone as well to see if what we did last year had an effect.

Zone 2 numbers are maintaining. What I would like to see is leave stuff where it is. 36 days, adjust the measure, 3 days a week. How would you feel with leaving season at 36 days and adjusting measures a bit?

P. Keliher – Lukewarm. The reason we said we would add 5 days is to get back a reasonable amount of days to try to get their 10 days as a goal for Zone 1.

J. Campbell – I got 9 days.

P. Keliher – The intent was to see if there would be a downward trend. We believe we reached stability and then turn around and go up. We want to change in an upward direction.

J. Leask – I was under the impression that we would leave Zone 2 alone. I just don't want to be here until 10pm.

P. Keliher – Science staff said we need to make an additional 23% reduction. We need to go from a stable historical low to changing trajectory of biomass to improving. I have heard from a lot of people that have said the resource is stable, other said best year ever due to Whiting and Denny's Bay, other said it is worse. If we do achieve 23% reduction this year, then I am not going to touch things for another 3 years.

Audience – tote limit will give a better urchin.

T. Sawtelle – How close would we be with 37 days and 8 totes?

C. Buyers – We need 44 days and 8 totes.

J. Leask – I don't think that is a reduction at all.

C. Buyers – We can reduce our effort with the size.

J. Leask – I agree with Ian that is a good way to go. I have been on bottom quite a bit. We can't continue to pound it like we have been. Majority of people can't get 8 totes. We need to do more.

D. Norris – The interlocking totes will be a reduction.

Audience – Intangible is a great way to say it. Haven't had any new licenses, there a reduction. Weather is a huge reduction. I am not sure what you are trying to do, increase the poundage?

J. Leask – Reduce it to 1 million lbs.

Audience – If I go off side of boat and there are no eggs there, I move.

R. Wright – At 500 lbs, that is a lot of expense for a dragger, quite a cut. You will weed more people out. We lost our weather days already.

J. Leask – That is why I am on board with leaving things alone and adjust the measure.

R. Wright – We end up paying for the guys who are getting the garbage.

J. Leask – I have been asking the buyers about this. I am convinced that tote limits put the burden of conservations of a few shoulders. It creates an artificial conservation. Remember trap limit reduction? More traps. Tote limit will create more landings. It will create a venue for those that do not obey the law. Two guys will split catch.

M. Potts – You will both have 8 trays.



D. Norris – I talked to a few guys the last couple of weeks. They were happy with an 8 tote cut, understood 90 lbs interlocking. Problem is when go lower, there gets a point so it doesn't work in the long term. 6 totes that someone mentioned can't go there.

C. Buyers – I don't think you can go below 8 totes.

R. Wright – Then start with 8 totes.

E. Fagonde – I think we keep it simple. 40 days and 7 trays. Reduce weight limit of trays.

T. Sawtelle – I agree.

E. Fagonde – A lot of trays being sold are 100, 110 lbs.

C. Buyers – I think you cut the size to get more days.

T. Sawtelle – Down home we will all be outside trying to get the bigger ones if there is an increase in the size.

R. Wright – Every warden knows we don't need a large measure in Cobscook.

W. Smith- We are going down the rabbit trail with nooses. Get rid of processors, it will be done. Won't come back.

B. Sutter – Tote limits, days and percentage of reductions. No accountability for number of people who have dropped out of the fishery. I heard the million pound thing. I know that 1500 mt of exploitable biomass in Zone 2 had nothing to do with Whiting & Denny's Bay. Some inequities or unanswered things about this position from which DMR are coming.

A. Tamaki – I have to work on other species to keep going. I don't want to kill the industry.

C. Muth – How many of your guys want to make \$1-1.50/lb.?

**MOTION: 8 totes, 43 days. (D. Norris, Seconded I. Emery)**

D. Norris - I have worked hard on this. I have worked years and years with science. This is the first time that I am deeply afraid that what we are doing will kill it. We need to keep close to 45 days.

R. Russell – That is a reduction of 5%, it is not enough.

D. Norris – Then leave Whiting & Denny's Bay alone.

R. Russell– We have heard there are a lot of big urchins, need to harvest that area.

D. Norris – We can move them.

C, Muth – They will die.

Audience – What are the percentages based on?

R. Russell – Last year landings.

C. Muth – We tried to save the market, people that put effort for twenty years picking urchins on a 10 hour day, they need the jobs. Increasing 5 days won't kill the whole state of Maine.

D. Norris – We decided two years ago that we need to see 2 years of decline to see if it is real.

C. Muth – If we are going to kill it, kill it fast.

B. Preney – With a tray limit you will create a better breed of fishermen, better quality. Even draggers won't beat bottom half as hard, better for bottom of ocean. Long term better fishery. Intangibles will way outweigh.

C. Buyers – How much effort will drop if go to \$1.50? Take Chun out of it.

C. Muth – There is me, Dewey, John Chow – we are bigger buyers and pay the best price. 36 days this year, I drove from Scarborough Downeast with 20 totes. I paid a guy \$150 because he had to stay night, diesel in the truck. Effort that we put in last season with cash buying is not working.

Machun – 2000 lbs. is not enough to make a one day operation.

C. Muth – We need high quality, 7% urchins 100 totes – I prefer 50 totes at 12% urchins. I discussed with Trisha on the first dragger days in Whiting & Denny's Bay, we spoke about tote limits and we all agreed.

J. Leask – You were not here last year when we made these decisions. I really got active last year. One thing I have come to a conclusion on over the years is that we are still going the same way. We still have to come up with a calendar. We have had to cut back in the past. I think you are going to make it. My point is this, we have a motion that Dean made for 43 and 8 with interlocking, I don't think that is conservation. If you look at the numbers, we are not going to do that. 44 days and 4 totes.

D. Norris – Three years ago we had the same biomass and 45 days.

B. Sutter – what is that for reduction?

R. Russell – a 5% net decrease.

D. Norris – Just putting 8 tote limit is a big cut. Whiting & Denny's Bay had half a million pounds landed from it, and goal is 1million.

C. Muth – Three boats alone filled up one truck.

T. De Graaf – I estimate 385,000 lbs was harvested from what I saw up there.

J. Leask – That lines up with what I calculate. About 400,000 lbs.

D. Norris – Do the math, that is your reduction.

C. Muth – I think the fishery will give us what we need.

B. Preney – I would like to consider 5% decrease in mortality from draggers reduction in impact.

C. Buyers – If you drop your big size ¼ inch it is a 15% reduction, 8 tray limit, that is 14%, and beg the commissioner for 40 days. Reduction of effort along whole coast.

J. Leask – Let's do it like last year and get input from industry.

B. Sutter – In my experience, you don't hang your hat on the results of public hearings. We are still in the discussion stage. In scallop industry they have pound limit per boat. Are we talking pound limit per boat or per harvester?

Audience – How about latent licenses? Take those away.

B. Sutter – How many licenses are left?

D. Norris – I would like to make an amendment.

I. Emery – Have you done the calculations? Chris did the calculations.

B. Sutter – Zone 2 there are 143 licenses left drag AND 143 dive licenses.

J. Campbell – How many dropped out?

B. Sutter – We lost 25 licenses.

A. Tamaki – Can we use different combinations that what DMR presented?

T. De Graaf – Yes, as long as it reaches the 23%, the we are willing to stick with it for 3 years with the logbook pilot.

D. Norris – 8 totes, 43 days, 1/16 off measures. 400K pounds not out of Whiting & Denny's Bay as a conservation equivalency.

J. Campbell – What happens to Whiting & Denny's Bay next year?

T. De Graaf – I will be Limited Access for scallops next year with diver and dragger days separated. I recommend matching up those days in there for safety and have access when early and late season overlaps and scallops start in December, like last year. If you want a few more days in there, put a few extra days in the start of January for early season.

B. Sutter – So you are staying we have three zones then. So the motion is 8, 43, 1/16.

C. Buyers – That doesn't achieve reduction needed as it is only 16%.

**MOTION TO AMMEND (D. Norris, ? Seconded): 8 totes, 43 days, 1/16 increase (16% reduction).**

**VOTE: 3 in favor, 5 opposed, 5 abstains. (total 14) MOTION FAILED.**

**ORIGINAL MOTION: 8 totes, 43 days.**

**VOTE: 43 days, 8 totes (5% reduction). 3 in favor, 0 opposed, 11 abstain. MOTION FAILED.**

I. Emery - The problem is we are not getting at the required 23%.

D. Norris – You have got to vote your conscience of what is good for industry. I am not going to vote for 23%. We make recommendations; they do what they want anyways.

**MOTION (J. Leask, No Seconded): 36 days, no totes, reduce max by 1/8 (15% reduction).**

R. Kennedy - Milbridge will be out of business, our urchins are big!

J. Leask – That is why I was asking. Leave season as is, shave 8<sup>th</sup> off top and 8<sup>th</sup> off bottom, which gets us to 20% reduction, which in combo with 30% last year is 50% and leave us alone for 3 years.

I. Emery - I am sensitive to guys in Cobscook.

R. Wright – Then we will be coming to your end next year!

J. Leask – Is an 1/8<sup>th</sup> going to impact that much?

I. Emery - An 1/8 is a big chunk. On outside shore it is going to hurt.

Chris – That is what it is designed to do. Narrow the window. Cobscook wants the upper changed and Joensport don't want to lower it.

I. Emery - Joe your proposal doesn't have tray limits, Ricky what do you think?

R. Wright – I know I was going to have to give something, I think a tray limit would be way to go. 37 days and 8 trays.

I. Emery - We are getting progress with tray limit. What about the upper limit?

R. Kennedy – Drop the measure and drop the totes so we get good stuff and get paid for it. I do 6 totes. I went to Whiting & Denny's bay one day and it was garbage. What is the sense? Why give it away?

J. Leask – I don't think buyers should buy any garbage.

R. Kennedy – Why buy 8% if you can get 20%?

J. Leask – If your guys are getting 6 trays, but the guys that are getting 10 are bearing the weight of conservation.

C. Muth – 36 days, extended season, have a dead spot. Most of processor didn't show up because they have ideas but they can't speak your language. Our ladies that pick urchins can't go get another license like elver. Give those ladies a chance. They have picked for 20 years, they need those jobs. If you guys kill this industry, their home will be bankrupt. 36 days is not workable.

J. Leask – You asked when we first came here for 27 days and no tote limits. 36 days this year, we got great prices. Atchan is not making money when I get good prices. Japan sets price and you have priced yourself out of the market. I understand you want 3 days a week. I rather do this and wait three years to see what happens.

C. Muth – 36 days with 1, 2, 3, day week. You guys have to split the weeks between zones and that is will split the week. All of us lost. Zone 2 and late and dragger and diver. Some times the draggers won't even drag and the divers are off and on. Christmas time we buy urchins at \$7 and it killed the market.

**VOTE: 36 days, no totes, reduce max by 1/8 (15% reduction). [36 days, no tote and up 1/8 and down 1/8.]: 0 in favor, 6 opposed, 7 abstained. MOTION FAILED**

**MOTION (A. Tamaki, J. Leask Seconded): 43 days, 5 tote limit and 1/16 increase in min. size (23% reduction).**

T. De Graaf – Perhaps the council would like to consider Option D which is 40 day + 6 totes + increase in minimum size of 1/16 + decrease in maximum size of 1/16 (-11% days + 27% trays + 5% min + 2% max)?

**MOTION AMENDMENT (A. Tamaki, I. Emery Seconded): 40 day + 6 totes + increase in minimum size of 1/16 + decrease in maximum size of 1/16 (-11% days + 27% trays + 5% min + 2% max = 23% reduction)**

C. Buyers – I think we can get away with a 19% reduction.

B. Sutter – The motion out there would get us there.

E. Fagonde – what about taking the min out?

T. De Graaf – That would result in a 18% reduction, not enough.

D. Norris – I think 6 totes is too low. People will drop out.

J. Leask – What about substituting the 6 with 8 totes?

**AMENDED AMMENDED MOTION: 40 day + 8 totes + increase in minimum size of 1/16 + decrease in maximum size of 1/16 (-11% days + 14% trays + 5% min + 2% max = 10% reduction)**

T. De Graaf - 10% reduction, not even close.

T. Sawtelle – The table doesn't make sense!

E. Fagonde – I say 30 days and 10 totes.

B. Sutter – What about current motion?

J. Campbell– In interest of Zone 1, do this statewide!

T. De Graaf – no, this is only for Zone 2.

I. Emery – I can't support the motion until we get clarity on what Tracey brought up.

VOTE [AMENDED AMMENDED MOTION]: 40 day + 8 totes + increase in minimum size of 1/16 + decrease in maximum size of 1/16 (-11% days + 14% trays + 5% min + 2% max = 10% reduction) 0 in favor, 8 opposed, 6 abstention. MOTION FAILED.

**ORIGINAL MOTION: 43 days, 5 tote limit and 1/16 increase in min. size (23% reduction).**

W. Smith – too much.

D. Norris – Make an amendment to 43, 7 totes.

C. Buyer – Don't settle for 7, go for 8 totes!

**AMMENDED MOTION (D. Norris, Seconded B. Preney): 43 days, 8 totes. 1/16 at both ends (12% reduction).**

C. Buyers – What about a Second Amendment Motion for 40 days, 8 totes, 1/16 on both sides (10% reduction). No Second.

**[BREAK]**

C. Buyers – The commissioner had a suggestion to increase measure 1/16 everywhere except Cobscook, then decrease 1/16 max with a 38 day and 7 totes (-6% days + 19% trays + 5% min + 2% max = 20% reduction).

J. Leask – Whiting & Denny's Bay is managed differently, already have something different here.

C. Buyers – I didn't like the 7 trays, but Pat's pretty solid on 7 trays. Would only be able to fish that day in that area to not have the lower measure increase in Cobscook.

J. Leask – This is micro-managing.

C. Buyers – The Commissioner said he would agree to that.

P. Keliher – That is 20% reduction, we will hold the line for 3 years if we have good language for the gauge, cant come in and land and then can't go back outside, have to tighten language up. From an enforcement point of view, if not good, we would have to come back and have another discussion next year, if people start cheating.

T. De Graaf – and logbooks.

P. Keliher – and logbook.

T. Sawtelle – I know they suck but they will show what is landed.

C. Buyers – I want to talk about 40 days and 8 totes.

R. Russell – that is a 3% reduction.

C. Buyers – What about a ¼ off the top?

Audience – not doing it.

J. Leask – What did Pat give to you?

C. Buyers – 38 days, 7 totes, 1/16 up from min (except Cobscook) and 1/16 down (20% reduction).

B. Sutter – Cobscook top only (reduction in max only).

P. Keliher – that right, I will go with a lower reduction of 20% with the 38 days, 7 totes, 1/16 up from min (except Cobscook) and 1/16 down.

B. Sutter – So, is the Whiting & Denny's Bay pilot project over?

T. De Graaf – Enforcement would like to have both scallops and urchins open at same time in that area. So overlap your early and late season greater.

B – Are we done with the pilot project for Whiting & Denny's Bay or open it right up? Makes a difference. Amount of urchins that came out of that area as tremendous.

J. Leask – Clarify for me please Pat. Is DMR in favor of keeping Whiting & Denny's Bay like last year's season?

P. de Graaf – Trish?

T. De Graaf – You want to have access to that area during early and late season overlap, which is in December. Since scallopers are in there the same time, you want your diver and dragger days to line up with theirs, starting in December.

B, Sutter – By increasing amount of effort in Whiting & Denny's Bay, then you decrease effort in other areas. Stems decline in Zone 2 overall.

C. Buyers – What about a 30 day early, 45 day late season? Reduce your effort. A lot harder weather in late season.

R. Russell – You would have to adjust your tray limit for a 45 day season.

I. Emery – How about a 30 day season in Cobscook, 10 tray limit?

**AMENDED MOTION (B. Sutter, Second B. Preney): 43 days, 8 totes. 1/16 at both ends (12% reduction). VOTE: 4 in favor, 5 against, 5 abstain. MOTION FAILED.**

**ORIGINAL MOTION: 43 days, 5 tote limit and 1/16 increase in min. size (23% reduction). VOTE: 0 in favor, MOTION FAILED.**

**MOTION (E. Fagonde, t. Sawtell): 36 days, 7 trays, (19% reduction).**

J. Leask – I would like to make a motion to amend to 36 days, 8 totes , 1/16 on both (19% reduction).

C. Muth – Zone 1 in September is not enough, need to get urchins from somewhere else. Zone 2 needs to start in December.

B. Sutter – The main motion is 36 days, 7 trays, (19% reduction). Floor is open for discussion.

C. Muth – 43 days, 8 totes and 1/16 both ends. (0% reduction).

B. Sutter – The main motion is 36 days, 7 trays, (19% reduction).

B. Soper – vote on it!

I. Emery – We still need discussion. If we don't have the processors, we don't have any industry.

A. Tamaki – All the council agrees on 1/16 on both ends, most of them anyways.

C. Buyers – 38 day season with an 8 tray season. Pat is going to do what he wants anyways.

T. De Graaf – I think Pat will go with 36 days, 7 trays, (19% reduction), it is close enough.

B. Sutter – The main motion is 36 days, 7 trays, (19% reduction).

P. Keliher – ill accept it.

**VOTE: 36 days, 7 trays, (19% reduction). 6 in support, 2 oppose, rest abstain. MOTION FAILED.**

I. Emery – For the guys that abstained, what do you have to say?

A. Tamaki – We need more days.

D. Norris – What about 43 days and 7 totes (0% reduction)?

J. Leask – What about 36 days and 8 totes?

D. Norris – We need more days.

J. Leask – How about 38 days and 8 totes?

C. Buyers – no one wants to give anything cause it stinks.

J. Leask – what about 8 totes and 1/16 on each end. (13% reduction).

P. Keliher – Set the season!

I. Emery – Pat, I understand your frustration, but we are almost there.

J. Leask –Do you have a proposal?

I. Emery – There was a lot of good proposals. Processors need to stay open.

Audience – 38 days and 7 totes.

C. Buyers – Let's re-vote Ed's proposal. 36 days, 7 trays, (19% reduction).

T. De Graaf – Pat's proposal was not fully considered, perhaps we discuss that as he is willing to compromise on the reduction with that.

**MOTION (J. Leask, I. Emery Seconded) Pat's suggestion for 38 days, 7 totes and an increase in measure 1/16 everywhere except Cobscook , then decrease 1/16 max (-6% days + 19% trays + 5% min + 2% max = 20% reduction).**  
**VOTE: 10 in favor. MOTION PASSED.**

Bill – 15 days in Zone 1.

[Break to pick days – see Appendix B for each calendar]

### **ZONE 1**

**MOTION (J. Leask, C. Richardson Seconded): Zone 1 Early Dive. MOTION PASSED.**

**MOTION (J. Leask, B. Preney Seconded): Zone 1 Late Dive. MOTION PASSED.**

**MOTION (J. Leask, T. Sawtelle Seconded): Zone 1 Early Drag. MOTION PASSED.**

**MOTION (J. Leask, B. Preney Seconded): Zone 1 Late Drag. MOTION PASSED.**

### **ZONE 2**

**MOTION (J. Leask, T. Sawtelle Seconded): Zone 2 Early Dive. MOTION PASSED.**

**MOTION (J. Leask, T. Sawtelle Seconded): Zone 2 Late Dive. MOTION PASSED.**

**MOTION (J. Leask, B. Preney Seconded): Zone 2 Early Drag. MOTION PASSED.**

**MOTION (T. Sawtelle, J. Leask Seconded): Zone 2 Late Drag. Some debate about choice of days here, but MOTION PASSED.**

**Next meeting will be held on May 16<sup>th</sup> at 4:30 at the Bangor DOT.**

**Meeting Adjourned at 9:30pm.**



## Appendix A

### T. De Graaf 2013-14 Season recommendation Slides

#### Sea Urchin Zone Council Meeting

April 4 2013, Ellsworth, ME

- I. Welcome and review of agenda
- II. Approval of last meeting minutes (03/21/13)
  - II. *Please not error of title & start time, will revise*
- III. DMR Update
  - I. *2013-14 Season Recommendations (T. De Graaf)*
- IV. Discussion: 2013-14 Season
- VI. Set Next Meeting Date & Time
- VII. Adjourn

Options to Achieve at Least a 23% Reduction for  
Zone 2 in 2013-14, as compared with 2012-13

- Reduce fishing days
- Daily tray limits
- Improve culling on bottom rates
- Other?
- LAST SUZC: Size & Escape Panels

## "Culling on Bottom" for Draggers – Modifying the Escape Panel

- NEC project (April 2005) tested various configurations of urchin drag escape panels.
- "For draggers who fish on small urchins, escape panels in the bottom or entire back of the drag will provide a modest reduction in the number of smalls in the catch."
- **ISSUE: Disproportionate effect**
  - Cobscook: Small urchins
  - Jonesport & Cutler: larger urchins
    - Not able to assign a conservation equivalency for Zone 2, however, could act as a "buffer" in addition to other measures.



## Size

- Increase in minimum size of 1/16 = 5% reduction
- Decrease in maximum size of 1/16 = 2% reduction

## Daily Tray Limits

If individual daily catches (from 2011-12 dealer report data) had each been reduced to the following number of trays, a reduction in landings might have been achieved:

| Number of trays:         | 4   | 5   | 6   | 7   | 8   | 9   | 10 |
|--------------------------|-----|-----|-----|-----|-----|-----|----|
| % Reduction for Divers   | 47% | 36% | 27% | 19% | 14% | 9%  | 7% |
| % Reduction for Draggers | 45% | 35% | 27% | 20% | 15% | 12% | 9% |

| Number of trays:                          | 4   | 5   | 6   | 7   | 8   | 9   | 10 |
|---|-----|-----|-----|-----|-----|-----|----|
| Average reduction for divers and draggers | 46% | 36% | 27% | 20% | 14% | 10% | 7% |

### Daily income at different tray limits and different price/lbs

| Trays    | <u>4</u> | <u>5</u> | <u>6</u> |
|----------|----------|----------|----------|
| Price/lb |          |          |          |
| \$2.00   | \$680    | \$850    | \$1,020  |
| \$2.25   | \$765    | \$956    | \$1,148  |
| \$2.50   | \$850    | \$1,063  | \$1,275  |
| \$2.75   | \$935    | \$1,169  | \$1,403  |
| \$3.00   | \$1,020  | \$1,275  | \$1,530  |
| \$3.25   | \$1,105  | \$1,381  | \$1,658  |
| \$3.50   | \$1,190  | \$1,488  | \$1,785  |

## Reduced Season Days

| Days | Reduction |
|------|-----------|
| 45   | -25%      |
| 44   | -22%      |
| 43   | -19%      |
| 42   | -17%      |
| 41   | -14%      |
| 40   | -11%      |
| 39   | -8%       |
| 38   | -6%       |
| 37   | -3%       |
| 36   | 0%        |
| 35   | 3%        |
| 34   | 6%        |
| 33   | 8%        |
| 32   | 11%       |
| 31   | 14%       |
| 30   | 17%       |
| 29   | 19%       |
| 28   | 22%       |
| 27   | 25%       |

| Number of trays:                          | 4   | 5   | 6   | 7   | 8   | 9   | 10 |
|---|-----|-----|-----|-----|-----|-----|----|
| Average reduction for divers and draggers | 46% | 36% | 27% | 20% | 14% | 10% | 7% |

| Days | Reduction |
|------|-----------|
| 45   | -25%      |
| 44   | -22%      |
| 43   | -19%      |
| 42   | -17%      |
| 41   | -14%      |
| 40   | -11%      |
| 39   | -8%       |
| 38   | -6%       |
| 37   | -3%       |
| 36   | 0%        |
| 35   | 3%        |
| 34   | 6%        |
| 33   | 8%        |
| 32   | 11%       |
| 31   | 14%       |
| 30   | 17%       |
| 29   | 19%       |
| 28   | 22%       |
| 27   | 25%       |

Mixing and matching these to achieve at least a 23% reduction for Zone 2 with days and trays:

44 days, 4-tray limit  
 40 days, 5-tray limit  
 37 days, 6-tray limit  
 34 days, 7-tray limit  
 32 days, 8-tray limit  
 31 days, 9-tray limit  
 30 days, 10-tray limit  
 27 days, no tray limit

### **2013-14 Season Management Recommendations**

- **Zone 2 Harvester Logbook 2 Year Pilot Program**
- **OPTION A:** 37 days + 6 totes
- **OPTION B:** 44 days + 4 totes
- **OPTION C:** 43 days + 5 totes + increase in min. size of 1/16

### **2013-14 Season Management Recommendations**

*DMR recognizes the impact of these reductions coupled with the reductions that were implemented last season. Therefore, DMR would like to discuss the possibility of a three year freeze on future management actions as a means to provide stability to the industry during this time.*



### **2013-14 Season Management Recommendations**

- **OPTION A:** 37 days + 6 totes (-3% days + 27% trays)
- **OPTION B:** 44 days + 4 totes (-22% days + 47% trays)
- **OPTION C:** 43 days + 5 totes + increase in minimum size of 1/16 should result in (-19% days + 36% trays + 5% min)
- **OPTION D:** 40 day + 6 totes + increase in minimum size of 1/16 + decrease in maximum size of 1/16 (-11% days + 27% trays + 5% min + 2% max)

DRAFT

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## 2013 - 2014 Sea Urchin Season for Maine

### Zone 1: 15 Day DRAG Calendar

**O** = Open    **□** = Closed

#### Early Season for Draggers

| September 2013  | October 2013   | November 2013   | December 2013  |
|---|--|---|--|
| S M Tu W Th F S<br>1 2 3 4 5 6 7<br>8 9 10 11 12 13 14<br>15 16 17 18 19 20 21<br>22 23 24 25 26 27 28<br>29 30 | S M Tu W Th F S<br>1 2 3 4 5<br>6 7 8 9 10 11 12<br>13 14 15 16 17 18 19<br>20 21 22 23 24 25 26<br>27 28 29 30 31 | S M Tu W Th F S<br>1 2<br>3 4 5 6 7 8 9<br>10 11 12 13 14 15 16<br>17 18 19 20 21 22 23<br>24 25 26 27 28 29 30 | S M Tu W Th F S<br>1 2 3 4 5 6 7<br>8 9 10 11 12 13 14<br>15 16 17 18 19 20 21<br>22 23 24 25 26 27 28<br>29 30 31 |
| 0   | 0  | 0   | 15   |

  

| January 2014   | February 2014   | March 2014  | Total Days |
|--|---|---|------------|
| S M Tu W Th F S<br>1 2 3 4<br>5 6 7 8 9 10 11<br>12 13 14 15 16 17 18<br>19 20 21 22 23 24 25<br>26 27 28 29 30 31 | S M Tu W Th F S<br>1<br>2 3 4 5 6 7 8<br>9 10 11 12 13 14 15<br>16 17 18 19 20 21 22<br>23 24 25 26 27 28 | S M Tu W Th F S<br>1<br>2 3 4 5 6 7 8<br>9 10 11 12 13 14 15<br>16 17 18 19 20 21 22<br>23 24 25 26 27 28 29<br>30 31 | 15         |
| 0  | 0   | 0   |            |

#### Late Season for Draggers

| September 2013  | October 2013   | November 2013   | December 2013  |
|---|--|---|--|
| S M Tu W Th F S<br>1 2 3 4 5 6 7<br>8 9 10 11 12 13 14<br>15 16 17 18 19 20 21<br>22 23 24 25 26 27 28<br>29 30 | S M Tu W Th F S<br>1 2 3 4 5<br>6 7 8 9 10 11 12<br>13 14 15 16 17 18 19<br>20 21 22 23 24 25 26<br>27 28 29 30 31 | S M Tu W Th F S<br>1 2<br>3 4 5 6 7 8 9<br>10 11 12 13 14 15 16<br>17 18 19 20 21 22 23<br>24 25 26 27 28 29 30 | S M Tu W Th F S<br>1 2 3 4 5 6 7<br>8 9 10 11 12 13 14<br>15 16 17 18 19 20 21<br>22 23 24 25 26 27 28<br>29 30 31 |
| 0   | 0  | 0   | 11   |

  

| January 2014   | February 2014   | March 2014  | Total Days |
|--|---|---|------------|
| S M Tu W Th F S<br>1 2 3 4<br>5 6 7 8 9 10 11<br>12 13 14 15 16 17 18<br>19 20 21 22 23 24 25<br>26 27 28 29 30 31 | S M Tu W Th F S<br>1<br>2 3 4 5 6 7 8<br>9 10 11 12 13 14 15<br>16 17 18 19 20 21 22<br>23 24 25 26 27 28 | S M Tu W Th F S<br>1<br>2 3 4 5 6 7 8<br>9 10 11 12 13 14 15<br>16 17 18 19 20 21 22<br>23 24 25 26 27 28 29<br>30 31 | 15         |
| 4  | 0   | 0   |            |



## 2013 - 2014 Sea Urchin Season for Maine

### Zone 2: 38 Day DIVE Calendar

**O** = Open    **□** = Closed

#### Early Season for Divers, Rakers and Trappers

| September 2013 |    |    |    |    |    |    | October 2013 |    |    |    |    |    |    | November 2013 |    |    |    |    |    |    | December 2013 |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|--------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|
| S              | M  | Tu | W  | Th | F  | S  | S            | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  |
| 1              | 2  | 3  | 4  | 5  | 6  | 7  |              |    | 1  | 2  | 3  | 4  | 5  |               |    |    |    |    | 1  | 2  | 1             | 2  | 3  | 4  | 5  | 6  | 7  |
| 8              | 9  | 10 | 11 | 12 | 13 | 14 | 6            | 7  | 8  | 9  | 10 | 11 | 12 | 3             | 4  | 5  | 6  | 7  | 8  | 9  | 8             | 9  | 10 | 11 | 12 | 13 | 14 |
| 15             | 16 | 17 | 18 | 19 | 20 | 21 | 13           | 14 | 15 | 16 | 17 | 18 | 19 | 10            | 11 | 12 | 13 | 14 | 15 | 16 | 15            | 16 | 17 | 18 | 19 | 20 | 21 |
| 22             | 23 | 24 | 25 | 26 | 27 | 28 | 20           | 21 | 22 | 23 | 24 | 25 | 26 | 17            | 18 | 19 | 20 | 21 | 22 | 23 | 22            | 23 | 24 | 25 | 26 | 27 | 28 |
| 29             | 30 |    |    |    |    |    | 27           | 28 | 29 | 30 | 31 |    |    | 24            | 25 | 26 | 27 | 28 | 29 | 30 | 29            | 30 | 31 |    |    |    |    |
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|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
| </             |    |    |    |    |    |    |              |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |

#### Late Season for Divers, Rakers and Trappers

| September 2013 |    |    |    |    |    |    | October 2013  |    |    |    |    |    |    | November 2013 |    |    |    |    |    |    | December 2013    |    |    |    |    |    |    |   |
|----------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|------------------|----|----|----|----|----|----|---|
| S              | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S                | M  | Tu | W  | Th | F  | S  |   |
| 1              | 2  | 3  | 4  | 5  | 6  | 7  |               |    | 1  | 2  | 3  | 4  | 5  |               |    |    |    |    |    | 1  | 2                | 1  | 2  | 3  | 4  | 5  | 6  | 7 |
| 8              | 9  | 10 | 11 | 12 | 13 | 14 | 6             | 7  | 8  | 9  | 10 | 11 | 12 | 3             | 4  | 5  | 6  | 7  | 8  | 9  | 8                | 9  | 10 | 11 | 12 | 13 | 14 |   |
| 15             | 16 | 17 | 18 | 19 | 20 | 21 | 13            | 14 | 15 | 16 | 17 | 18 | 19 | 10            | 11 | 12 | 13 | 14 | 15 | 16 | 15               | 16 | 17 | 18 | 19 | 20 | 21 |   |
| 22             | 23 | 24 | 25 | 26 | 27 | 28 | 20            | 21 | 22 | 23 | 24 | 25 | 26 | 17            | 18 | 19 | 20 | 21 | 22 | 23 | 22               | 23 | 24 | 25 | 26 | 27 | 28 |   |
| 29             | 30 |    |    |    |    |    | 27            | 28 | 29 | 30 | 31 |    |    | 24            | 25 | 26 | 27 | 28 | 29 | 30 | 29               | 30 | 31 |    |    |    |    |   |
| 0              |    |    |    |    |    |    | 0             |    |    |    |    |    |    | 0             |    |    |    |    |    |    | 11               |    |    |    |    |    |    |   |
| January 2014   |    |    |    |    |    |    | February 2014 |    |    |    |    |    |    | March 2014    |    |    |    |    |    |    | Total Days<br>38 |    |    |    |    |    |    |   |
| S              | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  |                  |    |    |    |    |    |    |   |
|                |    |    | 1  | 2  | 3  | 4  |               |    |    |    |    |    | 1  |               |    |    |    |    |    | 1  |                  |    |    |    |    |    |    |   |
| 5              | 6  | 7  | 8  | 9  | 10 | 11 | 2             | 3  | 4  | 5  | 6  | 7  | 8  | 2             | 3  | 4  | 5  | 6  | 7  | 8  | 9                | 10 | 11 | 12 | 13 | 14 | 15 |   |
| 12             | 13 | 14 | 15 | 16 | 17 | 18 | 9             | 10 | 11 | 12 | 13 | 14 | 15 | 9             | 10 | 11 | 12 | 13 | 14 | 15 | 16               | 17 | 18 | 19 | 20 | 21 | 22 |   |
| 19             | 20 | 21 | 22 | 23 | 24 | 25 | 16            | 17 | 18 | 19 | 20 | 21 | 22 | 16            | 17 | 18 | 19 | 20 | 21 | 22 | 23               | 24 | 25 | 26 | 27 | 28 | 29 |   |
| 26             | 27 | 28 | 29 | 30 | 31 |    | 23            | 24 | 25 | 26 | 27 | 28 |    | 23            | 24 | 25 | 26 | 27 | 28 | 29 | 30               | 31 |    |    |    |    |    |   |
| 12             |    |    |    |    |    |    | 7             |    |    |    |    |    |    | 8             |    |    |    |    |    |    |                  |    |    |    |    |    |    |   |

## 2013 - 2014 Sea Urchin Season for Maine Zone 2: 38 Day DRAG Calendar

**O** = Open      **□** = Closed

### Early Season for Draggers

| September 2013 |    |    |    |    |    |    | October 2013  |    |    |    |    |    |    | November 2013 |    |    |    |    |    |    | December 2013    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|------------------|----|----|----|----|----|----|----|
| S              | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S                | M  | Tu | W  | Th | F  | S  |    |
| 1              | 2  | 3  | 4  | 5  | 6  | 7  |               |    | 1  | 2  | 3  | 4  | 5  |               |    |    |    |    |    | 1  | 2                | 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8              | 9  | 10 | 11 | 12 | 13 | 14 | 6             | 7  | 8  | 9  | 10 | 11 | 12 | 3             | 4  | 5  | 6  | 7  | 8  | 9  | 10               | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 15             | 16 | 17 | 18 | 19 | 20 | 21 | 13            | 14 | 15 | 16 | 17 | 18 | 19 | 10            | 11 | 12 | 13 | 14 | 15 | 16 | 17               | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 22             | 23 | 24 | 25 | 26 | 27 | 28 | 20            | 21 | 22 | 23 | 24 | 25 | 26 | 17            | 18 | 19 | 20 | 21 | 22 | 23 | 24               | 25 | 26 | 27 | 28 | 29 | 30 |    |
| 29             | 30 |    |    |    |    |    | 27            | 28 | 29 | 30 | 31 |    |    | 24            | 25 | 26 | 27 | 28 | 29 | 30 | 29               | 30 | 31 |    |    |    |    |    |
| 0              |    |    |    |    |    |    | 15            |    |    |    |    |    |    | 10            |    |    |    |    |    |    | 13               |    |    |    |    |    |    |    |
| January 2014   |    |    |    |    |    |    | February 2014 |    |    |    |    |    |    | March 2014    |    |    |    |    |    |    | Total Days<br>38 |    |    |    |    |    |    |    |
| S              | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  |                  |    |    |    |    |    |    |    |
|                |    |    |    | 1  | 2  | 3  | 4             |    |    |    |    |    |    | 1             |    |    |    |    |    |    |                  |    |    |    |    |    |    | 1  |
| 5              | 6  | 7  | 8  | 9  | 10 | 11 | 2             | 3  | 4  | 5  | 6  | 7  | 8  | 2             | 3  | 4  | 5  | 6  | 7  | 8  |                  |    |    |    |    |    |    |    |
| 12             | 13 | 14 | 15 | 16 | 17 | 18 | 9             | 10 | 11 | 12 | 13 | 14 | 15 | 9             | 10 | 11 | 12 | 13 | 14 | 15 |                  |    |    |    |    |    |    |    |
| 19             | 20 | 21 | 22 | 23 | 24 | 25 | 16            | 17 | 18 | 19 | 20 | 21 | 22 | 16            | 17 | 18 | 19 | 20 | 21 | 22 |                  |    |    |    |    |    |    |    |
| 26             | 27 | 28 | 29 | 30 | 31 |    | 23            | 24 | 25 | 26 | 27 | 28 |    | 23            | 24 | 25 | 26 | 27 | 28 | 29 |                  |    |    |    |    |    |    |    |
|                |    |    |    |    |    |    |               |    |    |    |    |    |    | 30            | 31 |    |    |    |    |    |                  |    |    |    |    |    |    |    |
| 0              |    |    |    |    |    |    | 0             |    |    |    |    |    |    | 0             |    |    |    |    |    |    |                  |    |    |    |    |    |    |    |

## 2013 - 2014 Calendar

### Late Season for Draggers

| September 2013 |    |    |    |    |    |    | October 2013  |    |    |    |    |    |    | November 2013 |    |    |    |    |    |    | December 2013 |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|---------------|----|----|----|----|----|----|
| S              | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  |
| 1              | 2  | 3  | 4  | 5  | 6  | 7  |               |    | 1  | 2  | 3  | 4  | 5  |               |    |    |    |    | 1  | 2  | 1             | 2  | 3  | 4  | 5  | 6  | 7  |
| 8              | 9  | 10 | 11 | 12 | 13 | 14 | 6             | 7  | 8  | 9  | 10 | 11 | 12 | 3             | 4  | 5  | 6  | 7  | 8  | 9  | 8             | 9  | 10 | 11 | 12 | 13 | 14 |
| 15             | 16 | 17 | 18 | 19 | 20 | 21 | 13            | 14 | 15 | 16 | 17 | 18 | 19 | 10            | 11 | 12 | 13 | 14 | 15 | 16 | 15            | 16 | 17 | 18 | 19 | 20 | 21 |
| 22             | 23 | 24 | 25 | 26 | 27 | 28 | 20            | 21 | 22 | 23 | 24 | 25 | 26 | 17            | 18 | 19 | 20 | 21 | 22 | 23 | 22            | 23 | 24 | 25 | 26 | 27 | 28 |
| 29             | 30 |    |    |    |    |    | 27            | 28 | 29 | 30 | 31 |    |    | 24            | 25 | 26 | 27 | 28 | 29 | 30 | 29            | 30 | 31 |    |    |    |    |
| 0              |    |    |    |    |    |    | 0             |    |    |    |    |    |    | 0             |    |    |    |    |    |    | 13            |    |    |    |    |    |    |
| January 2014   |    |    |    |    |    |    | February 2014 |    |    |    |    |    |    | March 2014    |    |    |    |    |    |    | Total Days    |    |    |    |    |    |    |
| S              | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  | S             | M  | Tu | W  | Th | F  | S  |               |    |    |    |    |    |    |
|                |    |    | 1  | 2  | 3  | 4  |               |    |    |    |    |    | 1  |               |    |    |    |    |    | 1  |               |    |    |    |    |    |    |
| 5              | 6  | 7  | 8  | 9  | 10 | 11 | 2             | 3  | 4  | 5  | 6  | 7  | 8  | 2             | 3  | 4  | 5  | 6  | 7  | 8  |               |    |    |    |    |    |    |
| 12             | 13 | 14 | 15 | 16 | 17 | 18 | 9             | 10 | 11 | 12 | 13 | 14 | 15 | 9             | 10 | 11 | 12 | 13 | 14 | 15 |               |    |    |    |    |    |    |
| 19             | 20 | 21 | 22 | 23 | 24 | 25 | 16            | 17 | 18 | 19 | 20 | 21 | 22 | 16            | 17 | 18 | 19 | 20 | 21 | 22 |               |    |    |    |    |    |    |
| 26             | 27 | 28 | 29 | 30 | 31 |    | 23            | 24 | 25 | 26 | 27 | 28 |    | 23            | 24 | 25 | 26 | 27 | 28 | 29 |               |    |    |    |    |    |    |
|                |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |               |    |    |    |    |    |    |
| 10             |    |    |    |    |    |    | 9             |    |    |    |    |    |    | 6             |    |    |    |    |    |    |               |    |    |    |    |    |    |